

EXHIBIT A-A
TO
F04701-97-C-0032

CONTRACT DATA REQUIREMENTS LIST
(CDRL)

Revised 31 March 1998

TABLE OF CONTENTS

<u>SEQ NO</u>		<u>DID NO/TITLE/SUBTITLE</u>
A001		DI-MISC-81183/T Integrated Master Schedule
A002		DI-MISC-80508/T Technical Report - Study/Services (Data Package - SRR, SFR & PDR)
A003		DI-A-3020B/T Task Change Proposal/Contract Change Proposal
A004	DELETED	DI-F-6006/T Cost Data Summary Report
A005		DI-MGMT-81334/T Contract Work Breakdown Structure
A006		DI-IPSC-81431/T System/Subsystem Specification
A007		DI-E-3102/T Configuration Item Development Specification
A008		DI-MGMT-81468/T Contract Funds Status Report
A009	DELETED	DI-MGMT-81466/T Cost Performance Report
A110	DELETED	DI-F-6007 Functional Cost-Hour Report, DD Form 1921-1
A011	DELETED	DI-F-6009 Plant-wide Data Report, DD Form 1921
A012		DI-MGMT-81467 Cost\Schedule Status Report (C\SSR)

CONTRACT DATA REQUIREMENT LIST (CDRL) INSTRUCTIONS

1. SCOPE: These instructions supplement those stated in the DD Forms 1423, Contract Data Requirements List (CDRL). The Offeror shall provide full electronic delivery of all CDRL data using media and data formats compatible with existing Government systems and software [specified in the NPOESS Network Guide located in the Contractor Library]. The Offeror shall plan for the potential evolution of the existing Government system and modify/update the electronic transfer capability as required during the course of the contract.

2. DATA ITEM DESCRIPTION (DID)/DID TAILORING: The DID is a specification for the preparation of data. DID tailoring is indicated by the addition "/T" to the DID number as reflected in Block 4 of the DD Form 1423. Such tailoring is made to either relax preparation instructions or to tailor the DID to be in consonance with the source document tailoring contained in the Statement of Objectives (SOO). Since contract data requirements are normally a by-product of some contract task, if the requirements of the DID are in conflict with the tailored application of the source document as reflected in the TRD, the latter takes precedence. The DIDs referenced on the DD Forms 1423 were selected from DOD 5010.12-L, Acquisition Management Systems and Data Requirement Control List (AMSDL).

3. SUPPLEMENTAL DATA DELIVERY INSTRUCTIONS:

a. All CDRLs shall be delivered via electronic delivery. A hard copy of the transmittal letter only for each CDRL shall be delivered to NPOESS PCO. CDRL deliveries shall be compatible with the hardware and software as stated in the Network Guide.

a. Due dates: Date indicated specifies the date the data will arrive in the program office using electronic transfer method.

b. Late delivery: Data is considered late if it does not arrive at its destination by 1700 hours on the date specified in Block 12, 13 or 16 of the CDRL line item.

c. Letter of transmittal: Each electronic deliverable will contain the following information in a contractual transmittal letter for the deliverable:

(1) Contract Number and, if applicable, task assignment number

(2) CDRL sequence number together with DID number if applicable (i.e., A001/DI-A-3007/T)

(3) Exact title of the document being transmitted

(4) Document date, transmittal date, number, and revision information (if applicable)

(5) Filename and date of all electronic files submitted.

- (6) Whether the document is a preliminary draft, draft, or final submittal
- (7) For approval data: State "For Approval"
- (8) If the document is a resubmittal, reference the government letter requesting resubmittal or disapproval of previous submittal
- (9) For periodic reports: The report period that the document covers
- (9) Distribution: Information disclosing the total contractual distribution being made per Block 14 or 16 of the DD Form 1423.

a. The contractor is not authorized to provide copies of any data to any outside agency other than those listed in Block 14 or 16 of the DD Form 1423 without specific approval of the Procuring Contracting Officer (PCO).

b. If resubmittal of data is required (disapproval or non-acceptance) data items shall be resubmitted within 30 calendar days (CD) from the date of the letter from the government PCO. Should the contractor disagree with the resubmittal requirements, the contractor shall submit comment to the PCO within 15 calendar days of the date of the PCO letter.

4. DATA DESTINATION/QUANTITIES/REPRODUCIBLES: Block 14 of DD Form 1423.

5. SUPPLEMENTAL DATA APPROVAL REQUIREMENTS:

a. The letter "A" in Block 8 of the CDRL item means that the data item must be approved by the government. Selected data items require advanced approval by the government prior to being distributed to the addressees listed in Block 14 of the DD Form 1423. In addition, Block 16 of the DD Forms 1423 can contain directions concerning when the draft shall be submitted for approval, to whom it shall be submitted, and how many copies are required. Written approval indicating agreement or concurrence with the contractors furnished data only and shall not be construed as changing any of the terms or conditions of the subject contract. The approval authority shall be the PCO.

b. Data items submitted for approval will not automatically be approved after a certain elapsed time limit.

c. Disapproval: The contractor shall revise the data in accordance with specific written comments and resubmit. The resubmitted data will require a new approval cycle as indicated in Block 8 of the CDRL.

d. When an "A" is not indicated in Block 8, the PCO retains the right to disapprove any data that does not comply with the contract requirements.

e. Data item with a "N" or "blank" in Block 8 require no approval and are submitted for information only. The PCO retains the right to request corrections/clarifications to any data that does not comply with the contract requirements.

6. CODES USED IN THE DD FORM 1423: The directions for submittal and approval of data is indicated in Blocks 7, 8, 9, 10, 11, 12, 13, or 16 of the DD Form. Usually, the direction is in the form of a code which is explained below.

a. Block 7, DD Form 250 requirements:

<u>CODE</u>	<u>INSPECTION</u>	<u>ACCEPTANCE</u>
LT	Letter of Transmittal Only	N/A

b. Block 10, Frequency of Submittals:

*ASREQ.....As required

* When ASREQ is used in Blocks 10, 11, 12, or 13, an explanation of the requirements will be entered in Block 16

c. Blocks 12 & 13, Dates of initial submission and dates of subsequent submissions use the following codes:

ASREQ	=	As Required	SFR	=	System Functional Review
DAC	=	Days After Contract Start	SRR	=	System Requirements Review
MAC	=	Months After Contract Start	PDR	=	Preliminary Design Review
CD	=	Calendar Day(s)			

8. DISTRIBUTION STATEMENT MARKING: The designation in Block 9 of the DD Form 1423 indicates that one of the following seven (7) authorized distribution statements from AFR 83-3 (MIL-STD-1806 procedures may be used for distribution statements) shall be used in marking technical documents. Distribution statements will be selected with regard to any restrictions on the intended recipients. Note that distribution statement marking is both distinct from and supplemental to a security classification marking assigned in accordance with DoD 5200.1-R.

a. Distribution Statement A. Approved for public release; distribution is unlimited.

b. Distribution Statement B. Distribution authorized to U.S. Government agencies only (fill in reason) (date of contract award). Other requests for this document shall be referred to IPO/ADA

c. Distribution Statement C. Distribution authorized to U.S. Government agencies and their contractors (fill in reason) (date of contract award). Other requests for this document shall be referred to IPO/ADA.

d. Distribution Statement D. Distribution authorized to the DoD and DoD Contractors only (fill in reason) (date of contract award). Other requests for this document shall be referred to IPO/ADA

e. Distribution Statement E. Distribution authorized to DoD components only (fill in reason) (date of contract award). Other requests for this document shall be referred to IPO/ADA.

f. Distribution Statement F. Further distribution only as directed by IPO/ADA (date of contract award) or higher DoD authority.

g. Distribution Statement X. Distribution authorized to U.S. Government agencies and private individuals or enterprises eligible to obtain export-controlled technical data in accordance with regulations implementing 10 U.S.C. 140c (date of contract award). Other requests for this document shall be referred to (ADA).

All technical documents marked with Distribution Statements B, C, D, E, F, or X will also be marked with the following notice:

"Destruction notice. For classified documents follow the procedures in DoD Manual 5200.22, Industrial Security Manual, Section II-19, or DoD Regulation 5200.1 AFR 205-1, Information Security Program, Chapter IX. For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document."

9. PROPRIETARY INFORMATION MARKING: All proprietary information contained in text documents, viewgraphs, emails or any other format shall be marked with "[P]". A [P] shall be placed at the beginning and end of each paragraph or bullet as appropriate. Only paragraphs and bullets containing proprietary information shall be marked. For tables and figures, the title shall be marked at the beginning and end with a [P]. The header or footer of each page containing proprietary data shall be marked with "PROPRIETARY". The cover page of each document or briefing shall indicate which pages within contain proprietary information. For CDRLS A004, A008, and A009, marking the cover page and the header or footer of each page with "PROPRIETARY" is adequate. Electronic files containing proprietary information shall be named such that the first two characters of the filename are "p-". If the electronic file also contains export control information, the first three characters of the filename shall be "pe-".

10. EXPORT CONTROL STATEMENTS: All technical documents generated in performance of the contract must be reviewed to determine if they contain data subject to export control or to withholding under DoD Directive 5230.25, as implemented by AFR 80-34 and MIL-STD-1806. All data whose distribution is restricted by export control laws must be marked with the legend below. This notice is to be applied to the cover page in addition to otherwise required distribution statements and notices.

Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 6 of 24

"WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C 2751 et seq) or Executive Order 12470. Violation of these export-control laws is subject to severe criminal penalties. Dissemination of this document is controlled under DoD Directive 5230.25."

11. EXPORT CONTROL INFORMATION MARKING: All export control information contained in text documents, viewgraphs, emails or any other format shall be marked with "[E]". A [E] shall be placed at the beginning and end of each paragraph or bullet as applicable. Only paragraphs or bullets containing export control information shall be marked. For tables and figures, the title shall be marked at the beginning and end with a [E]. The header or footer of each page containing export control information shall be marked "EXPORT CONTROLLED". The cover page of each document or briefing shall indicate which pages within contain export control information. Electronic files containing export control information shall be named such that the first two characters of the filename are "e-". If the electronic file also contains proprietary information, the first three characters of the filename shall be "pe-".

12. PRICING CDRL ITEMS: Data pricing entries are to be completed by the contractor according to the Armed Services Pricing Manual (ASPM) No. 9, Section 9.5. Complete Block 17 in accordance with the following instructions:

(a) Group I. Definition: Data which is not otherwise essential to the contractors performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price: Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

(b) Group II. Definition: Data is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price: Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data items to the Government.

(c) Group III. Definition: Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control and quality of data.

Estimated Price: Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

(d) Group IV. Definition: Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price: Group IV items should normally be shown on the DD Forms 1423 as no cost.

13. BLOCK 18 ESTIMATED PRICE:

1. For each item of data listed, the contractor shall enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, "over and above" those costs which would otherwise be incurred in performance of the contract if no data were required.

2. These estimated data prices shall not include any amount for rights in data. The Government's rights to data shall be governed by the pertinent provisions of the contract.

CONTRACT DATA REQUIREMENTS LIST						Form Approved OMB No. 0704-0188					
Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.											
A. CONTRACT LINE ITEM NO.			B. EXHIBIT <div style="text-align: center;">A</div>		C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u>						
D. SYSTEM/ITEM Sensor Payload and Algorithm Development			E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR Ball Aerospace						
1. DATA ITEM NO. A001		2. TITLE OF DATA ITEM INTEGRATED MASTER SCHEDULE				3. SUBTITLE					
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-81183/T (See Blk 16)			5. CONTRACT REFERENCE SOW REF PARA 1.6.1.6			6. REQUIRING OFFICE IPO/ADA					
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED		10. FREQUENCY BLK 16		12. DATE OF FIRST SUBMISSION BLK 16		14. DISTRIBUTION			
8. APP CODE N		11. AS OF DATE BLK 16		13. DATE SUBSEQUENT SUBMISSION BLK 16		a. ADDRESSEE		b. COPIES			
16. REMARKS						IPO ADA		0			
<p>Block 4 Para 10.1, changed to include "Network with critical paths identified."</p> <p>Block 10, 12, 13 The initial sensor (suite) IMS will be submitted with the proposal and will be the baseline sensor (suite) IMS. Subsequent schedules will be submitted not later than the 20th calendar day after the end of each Government fiscal quarter (Dec, Mar, Jun and Sept). Provide a Letter of Transmittal on each submittal.</p> <p>Block 11 The "as of date" will be based on the Contractor's accounting calendar and will be the same as the C/SSR (CDRL A012)</p>						PCO		1		0	
						15. Total →		0 1 0			
G. PREPARED BY			H. DATE		I. APPROVED BY			J. DATE			
17. PRICE GROUP GROUP IV		18. ESTIMATED TOTAL PRICE NO COST				Page <u>1</u> of <u>1</u> Pages					

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Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 9 of 24

CONTRACT DATA REQUIREMENTS LIST						Form Approved OMB No. 0704-0188				
Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.										
A. CONTRACT LINE ITEM NO.			B. EXHIBIT <div style="text-align: center;">A</div>		C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____					
D. SYSTEM/ITEM Sensor Payload and Algorithm Development			E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR Ball Aerospace					
1. DATA ITEM NO. A002		2. TITLE OF DATA ITEM TECHNICAL REPORT - STUDY/SERVICES				3. SUBTITLE (DATA PKGS - SRR, SFR, & PDR)				
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508/T (See Blk 16)			5. CONTRACT REFERENCE SOW REF PARA 1.6.1.6			6. REQUIRING OFFICE IPO/ADA				
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED		10. FREQUENCY BLK 16		12. DATE OF FIRST SUBMISSION BLK 16		14. DISTRIBUTION		
8. APP CODE N		F		11. AS OF DATE		13. DATE SUBSEQUENT BLK 16		a.		
16. REMARKS						b. COPIES				
Block 4 Para 10.1 Format. Contractor format acceptable. To enable the Government to successfully view the documents electronically, submit in the Adobe Portable Document File (PDF) format. Hypertext links in a table of contents of documents shall link to the applicable areas of document. Research grade source code will be compatible with the environment used on the Government Test Bed. This environment, run on an SGI O2, includes IRIX 6.3, ENVI, 2.7, IDL 5.0, Fortran 77, C, and C++. Delivery media of the code should be on CD-ROM in the ISO 9660 format. Coordinate any variations to this guidance with IPO/ADA (Data Manager). Para 10.2(a): Replace "Report" with "Document" and "and reporting period" with "originator and document security classification." <u>Specifically for Data Packages include:</u> Para 10.2(c)(2): Replace "results obtained from the analytic effort" with "content for each included section". Para 10.2(c)(3): Replace "their condensed technical substantiations" with "Recommendations with summary descriptions of included data supporting them." Para 10.2(d): Change to read "Section II - Main body - include the following:						IPO ADA PCO		Draft 0	Final Reg 1	Rep 0
(CONTINUED ON NEXT PAGE)						15. Total →		0	1	0
G. PREPARED BY			H. DATE		I. APPROVED BY			J. DATE		
17. PRICE GROUP GROUP II		18. ESTIMATED TOTAL PRICE \$0 Cost				Page 1 of 4 Pages				

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Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 10 of 24

Systems Requirements Review (SRR)

SRR presentation material for the sensor risk reduction phase shall cover the following four specific areas:

1. Preliminary Functional Design

The contractor shall provide an introduction of the design concept, both sensor hardware and algorithms, which have been developed to date. The hardware portion shall cover a top level sensor design, discuss all major subsystems, and address key design/technology drivers and limitations. The algorithm portion shall consist of a data flow diagram illustrating and explaining the relationships between the data collected by the sensor and the final Environmental Data Record (EDR) product. The science algorithms used to produce the required EDRs will be discussed including all relevant equations and analyses. Data from other sources required to produce the EDR shall be discussed. The systems engineering and integration portion shall discuss the flow of data through hardware and algorithm and all the preliminary interface requirements. Significant contractor issues and trade studies, which include risk areas, shall be raised at this point to inform the IPO of potential problem areas and the proposed resolution/mitigation method.

2. Sensor Mission and Requirements Analysis

This presentation shall include a discussion of the contractor's interpretation and implementation of the SRD. The contractor shall review each section of the SRD and explain their interpretation/understanding of the system and EDR requirements to the IPO. Recommended values for TBDs and TBRs shall be provided. The IPO will review the contractor's understanding of the SRD and provide feedback for correctness and possible changes.

3. Sensor Requirements Allocation Document

This document shall discuss the detailed relationships between the SRD and the contractor's draft A-Spec. The contractor shall list each requirement in the SRD and demonstrate the flowdown into their draft A-Spec. The understanding of this relationship is critical to SRR success and the demonstration that the requirements have been correctly translated into the contractor's design. The draft A-Spec should also address any derived requirements which are not contained in the government SRD, internal company requirements, and other constraints. For the derived requirements, the contractor shall make available the details of this derivation. The final section of the contractor draft A-Spec shall contain the Verification Matrix which clearly illustrates the requirements source, flowdown to the draft A-Spec, and currently understood method of requirements verification as described in SRD Section 4.3 (test, analysis, or inspection).

4. Preliminary Life Cycle Cost Estimate

The Preliminary Life Cycle Cost estimate (PLCCE) shall be prepared separately from the requirements portion of the SRR. This PLCCE shall be in US 1997 Dollars and at SRR should include: non-recurring development cost for the instrument (including first unit and its support systems) and the recurring cost for each subsequent unit (per CLIN delivery schedule). For SFR and PDR, also include the long term support costs for the instrument (including storage), spacecraft payload integration, launch support, and on-orbit instrument anomaly resolution and maintenance. Day to day sensor/satellite and data processing and distribution costs are specifically excluded from this estimate.

System Functional Review

The SFR functions as the transition from the Systems Requirements Review (SRR) to the Preliminary Design Review (PDR). The primary focus of the SFR is to verify the realism of the functional and performance requirements, ensure their congruence with the mission and system configuration, and to ensure that the mission objectives can be met. The SFR should incorporate four primary components: flowdown of requirements within the contractor documentation which to include a comprehensive performance specification for the payload sensor and algorithms that will be used to generate the EDR's, a top level functional design of all identified components, confirmation that risk mitigation and requirements freeze plans are in place for all technologies and requirements in the design, and Preliminary Life Cycle Cost (PLCC) estimate and provision of a detailed WBS for the next phase of the program. SFR presentation material for the sensor risk reduction phase shall cover the following four specific areas:

1. Flowdown of requirements within Contractor documentation

The detail flowdown of requirements in the SFR is expected to be several levels of detail below that provided in the SRR materials. The draft A-spec from SRR which forms the basis of all documentation for the pre-SFR

phase should have been expanded to incorporate a comprehensive summary of performance characteristics of the payload instrument and of the algorithms that will be used to develop the required EDR's. The SFR

should also identify any external interface requirements, that are felt necessary to meet EDR requirements for the particular sensor system. Examples may be specific interface requirements for ground data processing or spacecraft interface documentation which is unique to the sensor. The purpose of this level of documentation is to identify requirements imposed by sensor system on spacecraft and ground. The requirements within the performance specification are flowed to the lower level specifications for instrument components. These lower level specifications will reside within the contractor documentation system.

2. Top Level Functional Architecture

The top level functional architecture to be discussed at the review, should include the initial detailed requirements for all of the system components. In this case, component is each separately designed unit whether hardware or software. The instrument portion shall consist of all identified components with specific list of all imposed requirements. The design for hardware components should include a description of each component and describe design drivers and/or areas where similarities to already existing designs exist. If a design exists for the component, the description of this component should be at a minimum of PDR level. For areas which are critical to the design, the vendor should include a detailed description of the component and a summary demonstrating an understanding of the risk associated with the design and of the proposed risk mitigation approach. The algorithm shall identify all software components and list all specific requirements imposed. The discussion of all identified algorithms should include whether it is based on an existing approach or a new development effort. For existing or adopted algorithms, the SFR data should be at a minimum of PDR level of design. Specifically the algorithm portions of the SFR should cover: metadata (listing of what data is to be collected and provided, internal and external data product flows, physical description of algorithm, mathematical description of algorithm, and variance and uncertainty estimates.

3. Risk Mitigation and Requirements freeze

The risk mitigation plan discussed at the review should identify all known risk areas and define the contractors' plan for reducing them to acceptable levels. Any risk which is considered high, - unlikely to be resolved at time of PDR - shall also have alternate solution which will include a decision point of primary vs. alternate solution. All risk should have a closure plan by PDR. For risks which extend beyond PDR, the vendor shall provide reasoning and sufficient detail to justify approach. In addition, as part of the risk mitigation plan the contractor shall propose an approach for freezing of requirements after SFR. The freeze should consist justification and discussion of which requirements are most sensitive to changes and which interface and design requirements can be left open until PDR and possibly post downselect.

4. PLCCE update and detailed WBS

This PLCCE shall be in US 1997 Dollars and include non-recurring development cost for the instrument (including first unit and its support systems) and the recurring cost for each subsequent unit (per CLIN delivery schedule). The long term support costs for the instrument (including storage), spacecraft payload integration, launch support, and on-orbit instrument anomaly resolution and maintenance shall also be included. Day to day sensor/satellite and data processing and distribution costs are specifically excluded from this estimate. The detailed WBS for the next phase of the program should show an understanding of manpower allocation to clearly demonstrate a clear path for resolution of design issues, mitigation of risk items, resolution of all action items, and management reserve to account for unknowns in a development effort.

Preliminary Design Review (PDR)

PDR presentation material and related supporting documentation for the sensor risk reduction phase shall include the same items, but with greater detail than at reflect greater understanding of program design, as for SFR,

Specifically for Agendas

Agendas shall include a synopsis clearly explaining each agenda topic.

Specifically for Meeting Minutes

Meeting Minutes shall include action items, dispositions and agreements, and a copy of any presentations (viewgraphs).

Blocks 10, 12, & 13

All information shall be submitted electronically to the IPO.

- a) Data Packages and Research Grade Code: As required.
- b) Agendas: Submit 15 CD prior to major program reviews.
- c) Presentation Materials: Providing draft viewgraphs electronically with submission of agenda is encouraged. Provide copies of viewgraphs for reviews for all attendees at the major program reviews.
- d) Meeting Minutes: Minutes and viewgraphs, with any corrections incorporated, shall be delivered within seven (7) working days after each major review.
- e) Provide a Letter of Transmittal on each submittal.

CONTRACT DATA REQUIREMENTS LIST						Form Approved OMB No. 0704-0188											
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT <div style="text-align: center;">A</div>		C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u>												
D. SYSTEM/ITEM Sensor Payload and Algorithm Development			E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR Ball Aerospace												
1. DATA ITEM NO. A003		2. TITLE OF DATA ITEM TASK PROPOSAL/CONTRACT CHG PROPOSAL				3. SUBTITLE											
4. AUTHORITY (Data Acquisition Document No.) DI-A-3020B/T (see Blk 16)			5. CONTRACT REFERENCE SOW REF PARA 1.6.1.6			6. REQUIRING OFFICE IPO/ADA											
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED		10. FREQUENCY AS REQ		12. DATE OF FIRST SUBMISSION AS REQ		14. DISTRIBUTION									
8. APP CODE A		F		11. AS OF DATE		13. DATE SUBSEQUENT SUBMISSION AS REQ		<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">a. ADDRESSEE</div> <div style="width: 60%;">b. COPIES</div> </div>									
16. REMARKS Block 4 Contractor format acceptable. Provide a Letter of Transmittal on each submittal. Block 8 Approval/Disapproval by PCO notification.						IPO ADA PCO ACO DCAA		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">Draft</th> <th style="width: 33%;">Final</th> <th style="width: 33%;">Reg</th> <th style="width: 33%;">Rep</th> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table>		Draft	Final	Reg	Rep	0	1	0	0
Draft	Final	Reg	Rep														
0	1	0	0														
						15. Total →		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">0</td> <td style="width: 33%;">1</td> <td style="width: 33%;">0</td> </tr> </table>		0	1	0					
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G. PREPARED BY			H. DATE		I. APPROVED BY				J. DATE								
17. PRICE GROUP GROUP IV		18. ESTIMATED TOTAL PRICE NO COST				Page <u>1</u> of <u>1</u> Pages											

DD FORM 1423-1, JUN 90 (COMPUTER GENERATED) Previous editions are obsolete

Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 14 of 24

CONTRACT DATA REQUIREMENTS LIST						Form Approved OMB No. 0704-0188			
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT		C. CATEGORY:				
			A		TDP _____ TM _____ OTHER <u>MISC</u>				
D. SYSTEM/ITEM			E. CONTRACT/PR.NO			F. CONTRACTOR			
Sensor Payload and Algorithm Development			F04701-97-C-0032			BALL AEROSPACE			
1. DATA ITEM NO.		2. TITLE OF DATA ITEM				3. SUBTITLE			
A004		COST DATA SUMMARY REPORT, DD Form 1921							
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE			6. REQUIRING OFFICE			
DI-F-6006/T			SOW REF PARA 1.6.1.6			IPO/ADA/Program Control			
7. DD 250 REQ		9. DIST STATEMENT REQUIRED		10. FREQUENCY		12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION	
LT				BLK 16		BLK 16			
8. APP CODE				11. AS OF DATE		13. DATE SUBSEQUENT SUBMISSION		a. ADDRESSEE	
N		F		BLK 16		BLK 16			
16. REMARKS						NPOESS		0	
4 (cont)						(PCO)			
a. Reporting levels shall be in accordance with the Contract Cost Data Reporting Plan (CCDRP), attachment 1 to CDRL A005. The approved CCDR Plan will be provided to the contractor 30 days after contract award. The contractor will map the contract WBS to the CCDR Plan WBS 60 days after contract award.						OSD/PA&E		0	
b. Critical/major subcontractor summary level data shall be reported as an attachment. Subcontractor proprietary data may be submitted directly to the Government.								1	
10,11,12,13 (cont) The contractor will make the initial submission within 60 days after contract award. Subsequent submissions will be made within 60 days of the following events: PDR, CDR, prototype/protoflight completion, program milestone reviews and final delivery. The contractor shall submit a final report at contract close-out. The contractor shall submit a final report within 180 days after final delivery or when 90 percent of costs have been incurred, whichever comes first.								0	
14,15 (cont) Contractor format is acceptable. Submission will be electronic using the format specified in ANSI ASC X.12, Transaction Data Set 196 Version 3040. Initial submission shall include a hard copy and electronic copy of the report. Subsequent submissions will be electronic. Media for electronic delivery will be 3.5" floppy diskette. The Government will have access, on an as-required basis, to electronic Contractor CCDR data.									
Letter of transmittal (LT) to NPOESS (PCO) on each submittal.									
						15. Total		0	
G. PREPARED BY			H. DATE		I. APPROVED BY			J. DATE	
17. PRICE GROUP		18. ESTIMATED TOTAL PRICE				Page <u>1</u> of <u>1</u> Pages			
GROUP I									

DD FORM 1423-1, JUN 90 (COMPUTER GENERATED) Previous editions are obsole

Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 15 of 24

CONTRACT DATA REQUIREMENTS LIST						Form Approved OMB No. 0704-0188			
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____				
D. SYSTEM/ITEM Sensor Payload and Algorithm Development			E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR BALL AEROSPACE				
1. DATA ITEM NO. A005		2. TITLE OF DATA ITEM CONTRACT WORK BREAKDOWN STRUCTURE (CWBS)				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81334/T (see Blk 16)			5. CONTRACT REFERENCE SOW REF PARA 1.6.1.6			6. REQUIRING OFFICE IPO/ADA			
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED		10. FREQUENCY BLK 16		12. DATE OF FIRST SUBMISSION BLK 16			
8. APP CODE N		F		11. AS OF DATE BLK 16		13. DATE SUBSEQUENT SUBMISSION			
6. REMARKS Block 4 The Contract Work Breakdown Structure and Dictionary shall be prepared and submitted for approval, reflecting the WBS outlined in the attached Contract Cost Data Reporting Plan (CCDRP). Provide a Letter of Transmittal on each submittal. Blocks 10, 11 & 12 Initial submission shall be in the proposal. Revision pages to the approved CWBS and Dictionary shall be submitted 30 CD following any changes.						14. DISTRIBUTION			
						b. COPIES			
						a. ADDRESSEE			
						IPO ADA PCO			
						Draft			
						Final			
						Reg			
						Rep			
						0			
						1			
						0			
						15. Total →			
						0			
						1			
						0			
G. PREPARED BY			H. DATE		I. APPROVED BY			J. DATE	
17. PRICE GROUP GROUP IV			18. ESTIMATED TOTAL PRICE NO COST			Page 1 of 1 Pages			

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u>			
D. SYSTEM/ITEM Sensor Payload and Algorithm Development			E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR BALL AEROSPACE		
1. DATA ITEM NO. A006		2. TITLE OF DATA ITEM SYSTEM/SUBSYSTEM SPECIFICATION			3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81431/T (see Blk 16)			5. CONTRACT REFERENCE SOW REF PARA 1.6.1.6		6. REQUIRING OFFICE IPO/ADA		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQ	12. DATE OF FIRST SUBMISSION BLK 16		14. DISTRIBUTION		
8. APP CODE A		11. AS OF DATE	13. DATE SUBSEQUENT SUBMISSION BLK 16		a. ADDRESSEE	b. COPIES	
						Draft	Final
						Reg	Rep
16. REMARKS Block 4 Contractor format is acceptable. All paragraphs referenced in DID DI-IPSC-81431 must be addressed. Provide a Letter of Transmittal on each submittal. Block 12 A draft Sensor (Suite) system specification shall be submitted 30 CD prior to the System Functional Review. Block 13 The final draft system specification shall be submitted 30 CD after System Functional Review (SFR).					IPO ADA	1	1
					PCO		
					15. Total →	0	1
G. PREPARED BY			H. DATE		I. APPROVED BY		J. DATE
17. PRICE GROUP GROUP II		18. ESTIMATED TOTAL PRICE			Page <u>1</u> of <u>1</u> Pages		

DD FORM 1423-1, JUN 90 (COMPUTER GENERATED) Previous editions are obsolete

Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 17 of 24

CONTRACT DATA REQUIREMENTS LIST

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OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u>			
D. SYSTEM/ITEM Sensor Payload and Algorithm Development			E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR BALL AEROSPACE		
1. DATA ITEM NO. A007		2. TITLE OF DATA ITEM CONFIGURATION ITEM DEVELOPMENT SPECIFICATION			3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.) DI-E-3102/T (see Block 16)			5. CONTRACT REFERENCE SOW REF PARA 1.6.1.6			6. REQUIRING OFFICE IPO/ADA	
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED		10. FREQUENCY BLK 16		12. DATE OF FIRST SUBMISSION BLK 16	
8. APP CODE A		11. AS OF DATE F		13. DATE SUBSEQUENT SUBMISSION BLK 16		14. DISTRIBUTION	
16. REMARKS Block 4 Para 7.0: Change to read: "The development specification(s) establishes the performance requirements which the configuration item(s) must satisfy upon completion of the development phase. A development specification is required for each mission critical configuration item allocated from the system specification which established the functional baseline or form a higher level configuration item or for a non-system CI." Para 9.0: Delete references listed. Para 10.1: Change to read: "The contractor shall prepare a development specification for each configuration item." Para 10.2: Change to read: "Contractor format is acceptable. Specifications shall contain six numbered sections and appendices as required, titled and numbered as shown below: 1.0 Scope 2.0 Applicable Documents 3.0 System Requirements 3.x Interface Definition (This paragraph, in subparagraphs, shall address all requirements (3.1-3.11) in the IRD, attachment 4 of the RFP) 4.0 Quality Assurance Provisions 5.0 Preparation for Delivery 6.0 Notes Provide a Letter of Transmittal on each submittal. Blocks 10, 12, & 13 Submit the draft electronically 30 CD prior to the Preliminary Design Review.				a. ADDRESSEE IPO ADA PCO		b. COPIES	
				Draft		Final	
				1		1	
				Reg		Rep	
15. Total →				0		1	
G. PREPARED BY				H. DATE		I. APPROVED BY	
J. DATE				17. PRICE GROUP GROUP IV		18. ESTIMATED TOTAL PRICE NO COST	

Page 1 of 1 Pages

DD FORM 1423-1, JUN 90 (COMPUTER GENERATED) Previous editions are obsolete

Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 18 of 24

CONTRACT DATA REQUIREMENTS LIST

Form Approved
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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u>	
D. SYSTEM/ITEM Sensor Payload and Algorithm Development		E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR BALL AEROSPACE	
1. DATA ITEM NO. A008	2. TITLE OF DATA ITEM CONTRACT FUNDS STATUS REPORT			3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81468/T (see Block 16)		5. CONTRACT REFERENCE SOW REF PARA 1.6.1.6		6. REQUIRING OFFICE IPO/ADA/Program Control	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY QRTLTY	12. DATE OF FIRST SUBMISSION BLK 16	14. DISTRIBUTION	
8. APP CODE N		11. AS OF DATE BLK 16	13. DATE SUBSEQUENT SUBMISSION BLK 16	a. ADDRESSEE IPO ADA PCO	b. COPIES Draft 0 Final 1 Reg 1 Rep 0
16. REMARKS Block 4 Para 10. A reconciliation between the CFSR and CPR shall be submitted as an attachment to the CFSR. Each submission should: a) Contain a separate page for each appropriation and each fiscal year (FY) of funds obligated on contract, by CLIN. b) Contain a total page for all CLINs, appropriations and FYs. c) CFSR data shall be reconciled to the Government's FY end of 30 September, if the contractor's FY end does not coincide with the Government's. d) Report shall contain forecast by month for the next six months, by quarter for the remaining FY, and by year for the remaining FYs. e) The CFSR shall be submitted electronically, using the ANSI ASC-X.12 Transaction Set 839 (Version 3050). f) Provide a Letter of Transmittal on each submittal. Block 11 Last day of the contractor's monthly accounting period. Block 12 Date of 1st submission shall be no later than 20 calendar days following the close of the first Government fiscal quarter following contract award. Block 13 Not later than the 20th calendar day after the end of each Government fiscal quarter Dec, Mar, Jun and Sept.				15. Total → 0 1 0	
G. PREPARED BY		H. DATE		I. APPROVED BY	
				J. DATE	
17. PRICE GROUP GROUP II		18. ESTIMATED TOTAL PRICE		Page 1 of 2 Pages	

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Exhibit A-A
CDRL, F04701-97-C-0032
Page 19 of 24

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u>					
D. SYSTEM/ITEM Sensor Payload and Algorithm Development			E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR BALL AEROSPACE				
1. DATA ITEM NO. A009		2. TITLE OF DATA ITEM COST PERFORMANCE REPORT			3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81466/T			5. CONTRACT REFERENCE SOW REF PARA 1.6.1.6		6. REQUIRING OFFICE IPO/ADA				
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY BLK 16	12. DATE OF FIRST SUBMISSION BLK 16		14. DISTRIBUTION				
8. APP CODE		11. AS OF DATE	13. DATE SUBSEQUENT SUBMISSION		a. ADDRESSEE	b. COPIES Final			
N	F	BLK 16	BLK 16			Draft	Reg	Rep	
16. REMARKS 4 (cont) Blk 10 of DID: a. The CPR shall be submitted electronically, using the ANSI ASC X.12, Transaction Set 839 Version 3050. b. Reporting levels and frequency shall be in accordance with the Contract Cost Data Reporting Plan (CCDRP), attachment 1 to CDRL A005. Report direct at the WBS reporting level. Overhead, G&A and COM will be reported as a single-line entry for the total contract at the program level. A reconciliation between the CPR and the CFSR shall be submitted quarterly as an attachment to the CFSR. c. For Format 5, the contractor shall provide the top 10 reporting level cost drivers and the top 10 reporting level schedule drivers (both ranked in descending order of criticality). Each month the cost, schedule and technical status of these drivers will be discussed. This discussion shall include current status, potential impacts to cost or schedule (positive or negative), anticipated problem solution, and the current projected cost at completion for each element. Every six months, the contractor shall submit an updated listing of these critical drivers. The Government reserves the right to modify, increase or decrease both the initial listing as well as the updates. If the contractor uses "critical path" scheduling techniques, then the identification of the ranked critical path by WBS reporting element shall meet the schedule drivers requirement. In addition, the Government reserves the right to request additional information for those reporting level WBS elements (not included in the top 10 list) that have experienced significant shifts in status from previous months. Cumulative variance analysis is not required; only current month analysis is required. d. A flash report containing format 1 will be required 5 working days after the close of the contractor's monthly accounting period. Formal submittal of the CPR (Formats 1-5) will be submitted 20 working days after the close of the contractor's monthly accounting period. (CONTINUED ON NEXT PAGE)				NPOESS (PCO)		0	1	0	
				15. Total →		0	1	0	
G. PREPARED BY			H. DATE		I. APPROVED BY			J. DATE	
17. PRICE GROUP GROUP II		18. ESTIMATED TOTAL PRICE			Page <u>1</u> of <u>2</u> Pages				

DD FORM 1423-1, JUN 90 (COMPUTER GENERATED) Previous editions are obsolete

Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 20 of 24

CONTRACT DATA REQUIREMENTS LIST						Form Approved OMB No. 0704-0188				
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D. SYSTEM/ITEM Sensor Payload and Algorithm Development			E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR BALL AEROSPACE					
1. DATA ITEM NO. A010		2. TITLE OF DATA ITEM FUNCTIONAL COST-HOUR REPORT, DD Form 1921-1				3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) DI-F-6007			5. CONTRACT REFERENCE SOW REF PARA 1.6.1.6			6. REQUIRING OFFICE IPO/ADA/Program Control				
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED F		10. FREQUENCY BLK 16		12. DATE OF FIRST SUBMISSION BLK 16		14. DISTRIBUTION		
8. APP CODE N				11. AS OF DATE BLK 16		13. DATE SUBSEQUENT SUBMISSION BLK 16		a. ADDRESSEE		
								b. COPIES		
16. REMARKS 4 (cont) a. Reporting levels shall be in accordance with the Contract Cost Data Reporting Plan (CCDRP), attachment 1 to CDRL A005 . The approved CCDR Plan will be provided to the contractor 30 days after contract award. The contractor will map the contract WBS to the CCDR Plan WBS 60 days after contract award. b. Critical/major subcontractor summary level data shall be reported as an attachment. Subcontractor proprietary data may be submitted directly to the Government. 10,11,12,13 (cont) The contractor will make the initial submission within 60 days after contract award. Subsequent submissions will be made within 60 days of the following events: PDR, CDR, prototype/prototype completion, program milestone reviews and final delivery. The contractor shall submit a final report within 180 days after final delivery or when 90 percent of costs have been incurred, whichever comes first. 14,15 (cont) Contractor format is acceptable. Submission will be electronic using the format specified in ANSI ASC X.12, Transaction Data Set 196 Version 3040. Initial submission shall include a hard copy and electronic copy of the report. Subsequent submissions will be electronic. Media for electronic delivery will be 3.5" floppy diskette. The Government will have access, on an as-required basis, to electronic Contractor CCDR data. Letter of transmittal (LT) to NPOESS (PCO) on each submittal.						NPOESS (PCO)		0	1	0
						OSD/PA&E		0	1	0
						15. Total		0	2	0
						G. PREPARED BY		H. DATE		I. APPROVED BY
17. PRICE GROUP GROUP I		18. ESTIMATED TOTAL PRICE				Page <u>1</u> of <u>1</u> Pages				

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Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 21 of 24

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u>					
D. SYSTEM/ITEM Sensor Payload and Algorithm Development			E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR BALL AEROSPACE					
1. DATA ITEM NO. A011		2. TITLE OF DATA ITEM PLANT-WIDE DATA REPORT, DD Form 1921-3			3. SUBTITLE					
4. AUTHORITY (Data Acquisition Document No.) DI-F-6009			5. CONTRACT REFERENCE SOW REF PARA 1.6.1.6		6. REQUIRING OFFICE IPO/ADA/Program Control					
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED F		10. FREQUENCY BLK 16		12. DATE OF FIRST SUBMISSION BLK 16		14. DISTRIBUTION		
8. APP CODE N				11. AS OF DATE BLK 16		13. DATE SUBSEQUENT SUBMISSION BLK 16		a. ADDRESSEE		
								b. COPIES		
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						OSD/PA&E		0	1	0
						15. Total		0	2	0
						G. PREPARED BY		H. DATE		I. APPROVED BY
17. PRICE GROUP GROUP I		18. ESTIMATED TOTAL PRICE				Page 1 of 1 Pages				

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Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 22 of 24

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>MISC</u>				
D. SYSTEM/ITEM Sensor Payload and Algorithm Development			E. CONTRACT/PR.NO F04701-97-C-0032		F. CONTRACTOR BALL AEROSPACE				
1. DATA ITEM NO. A012		2. TITLE OF DATA ITEM Cost\Schedule Status Report (C\SSR)			3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81467 (see Blk 16)			5. CONTRACT REFERENCE			6. REQUIRING OFFICE NPOESS IPO/ADA/Program Control			
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED		10. FREQUENCY Quarterly		12. DATE OF FIRST SUBMISSION BLK 16		14. DISTRIBUTION	
8. APP CODE N		11. AS OF DATE BLK 16		13. DATE SUBSEQUENT SUBMISSION BLK 16		a. ADDRESSEE		b. COPIES	
16. REMARKS									
<u>Block 4</u> Remarks to Para 10: a. The C\SSR shall be submitted electronically, using the ANSI ASC X.12, Transaction Set 839 Version 3050. b. Reporting levels shall be in accordance with Contract Work Breakdown Structure CDRL A005. Report will be in accordance with the Data Item Description (DID) DI-MGMT-81467. A reconciliation between the C\SSR and the CFSR (CDRL A008) shall be submitted quarterly as an attachment to the CFSR. c. For the narrative explanation, the Contractor shall provide the top 10 reporting level cost drivers, and the top 10 reporting level schedule drivers (both ranked in descending order of criticality). Major subcontractor concerns shall be included. Each month the cost, staffing, and schedule and technical status of these drivers will be discussed. This discussion shall include current status, potential impacts to cost or schedule (positive or negative), anticipated problem solution, and the current projected cost at completion for each element. Once an item is identified on a monthly top 10 list, the contractor will report its status until it is resolved. The Government reserves the right to modify, increase or decrease both the initial listing as well as the updates. If the Contractor uses "critical path" scheduling techniques, then the identification of the ranked critical path by WBS reporting element shall meet the schedule drivers requirement. In addition, the Government reserves the right to request additional information for those reporting level WBS elements (not included in the top 10 list) that have experienced significant shifts in status from previous months.						IPO ADA 0 PCO OSD/PA&E 0		Draft 0 Reg 1 Rep 0	
						15. Total		0	
G. PREPARED BY			H. DATE		I. APPROVED BY			J. DATE	
17. PRICE GROUP GROUP IV		18. ESTIMATED TOTAL PRICE \$ 0 Cost				Page 1 of 2 Pages			

DD FORM 1423-1, JUN 90 (COMPUTER GENERATED) Previous editions are obsolete

Modifications P0000# (s) affecting this page: 1, 4

Exhibit A-A
CDRL, F04701-97-C-0032
Page 23 of 24

- d. Major subcontractor data should be included in the C\SSR to reflect the status as of the same accounting month-end, i.e. subcontractor data should not "lag" the prime's data".
- e. An electronic Letter of Transmittal shall be provided to NPOESS/IPO with each submittal.

Block 11

Last day of Contractor's quarterly accounting period.

Blocks 12 & 13

Initial submission shall be following the second full accounting period after contract award. Subsequent submissions will be submitted within 20 working days after the close of the Contractor's quarterly accounting period.